



PATENT
Docket No. 10799/13

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTORS : Catherine TAYLOR, et al.
SERIAL NO. : 09/909,796
FILED : July 23, 2001
FOR : DNA ENCODING APOPTOSIS-INDUCED EUCARYOTIC
INITIATION FACTOR-5A AND DEOXYHYPUSINE
SYNTHASE AND A METHOD FOR CONTROLLING
APOPTOSIS IN ANIMALS AND HUMANS

Box - **MISSING PARTS**
Assistant Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT ADDING ABSTRACT

S I R:

Prior to examination of the above-identified application, please enter the following amendments.

In the Specification:

After page 119, please insert:

--ABSTRACT OF THE INVENTION

Genes encoding an apoptosis-induced eukaryotic initiation Factor-5A (eIF-5A) and an apoptosis-induced deoxyhypusine synthase (DHS), whose expressions are induced by the onset of apoptosis, are identified. The DHS gene and the eIF-5A gene, alone or in combination, as well as inhibitors of the DHS reaction, are used to modulate apoptosis in animals and humans. For example, modulation of apoptosis in cells of animals and humans is achieved by introduction of a gene or gene fragment encoding apoptosis-induced eIF-5A, apoptosis-induced DHS, or both into the animal or human cell in antisense orientation.